

Materials List for:

# Rescue and Characterization of Recombinant Virus from a New World Zika Virus Infectious Clone

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URL: <https://www.jove.com/video/55857>

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## Materials

Name	Company	Catalog Number	Comments
NEB Stable Competent E. coli	New England BioLabs	C3040H	
Carbenicillin, Disodium Salt	various		
Zyppy Plasmid Miniprep Kit	Zymo Research	D4036	
ZymoPURE Plasmid Maxiprep Kit	Zymo Research	D4202	
Sall-HF	New England BioLabs	R3138S	20,000 units/ml
NheI-HF	New England BioLabs	R3131S	20,000 units/ml
ApaI	New England BioLabs	R0507S	10,000 units/ml
EcoRI-HF	New England BioLabs	R3101S	20,000 units/ml
BamHI-HF	New England BioLabs	R3136S	20,000 units/ml
HindIII-HF	New England BioLabs	R3104S	20,000 units/ml
illustra TempliPhi 100 Amplification Kit	GE Healthcare Life Sciences	25640010	
NucleoSpin Gel and PCR Clean-up	Macherey-Nagel	740609.5	
Shrimp Alkaline Phosphatase (rSAP)	New England BioLabs	M0371S	1,000 units/ml
Alkaline Phosphatase, Calf Intestinal (CIP)	New England BioLabs	M0290S	10,000 units/ml
T4 DNA Ligase	New England BioLabs	M0202S	400,000 units/mL
HiScribe T7 ARCA mRNA Kit	New England BioLabs	E2065S	
Vero cells	ATCC	CCL-81	
ECM 630 High Throughput Electroporation System	BTX	45-0423	Other machines are acceptable.
LB Broth with agar (Miller)	Sigma	L3147	Can be homemade as well.
Terrific Broth	Sigma	T0918	Can be homemade as well.
Petri Dish	Celltreat	229693	
Culture Tubes	VWR International	60818-576	
T75 flasks	Celltreat	229340	
T182 flasks	Celltreat	229350	
1x PBS	Corning	21-040-CV	
RPMI 1640 with L-glutamine	Corning	10-040-CV	
DMEM with L-glutamine and 4.5 g/L glucose	Corning	10-017-CV	
Fetal Bovine Serum (FBS)	Atlas Biologicals	FP-0500-A	
Tragacanth Powder	MP Bio	MP 104792	
Crystal Violet	Amresco	0528-1006	

Ethanol Denatured	VWR International	BDH1156-1LP	
6 well plate	Celltreat	229106	
12 well plate	Celltreat	229111	
Sequencing Oligos	IDT	see table 1	
Qubit 3.0	ThermoFisher	Qubit 3.0	other methods are acceptable.
Qubit dsDNA BR Assay Kit	ThermoFisher	Q32850	other methods are acceptable.
Qubit RNA HS Assay Kit	ThermoFisher	Q32852	other methods are acceptable.
Class II Biosafety Cabinet	Varies	N/A	This is necessary for live-virus work.